# CITY OF WICHITA PAVEMENT PRESERVATION PROGRAM



Public Works & Utilities
August 2013

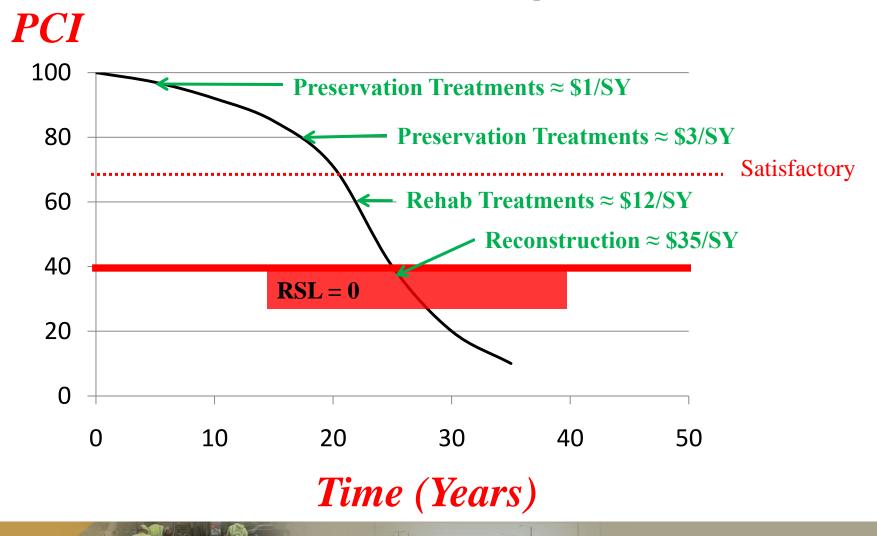


# Pavement Preservation Program Approach

- Condition ratings: PCI⇒⇒⇒ROI
- 2011 2012 CMP Transition
- 2013 & 2014 CMP Pilot Projects
- CMP based on ROI: 2015 (and beyond)

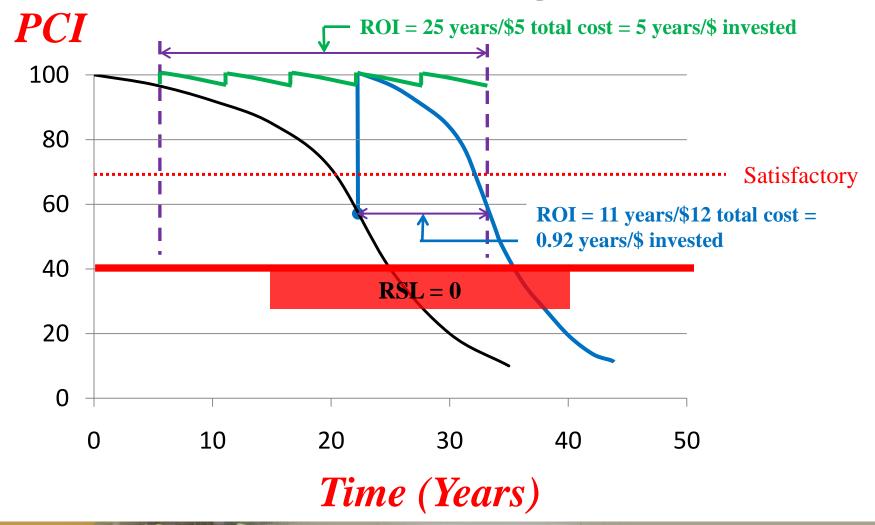


### $PCI \rightarrow \rightarrow ROI$





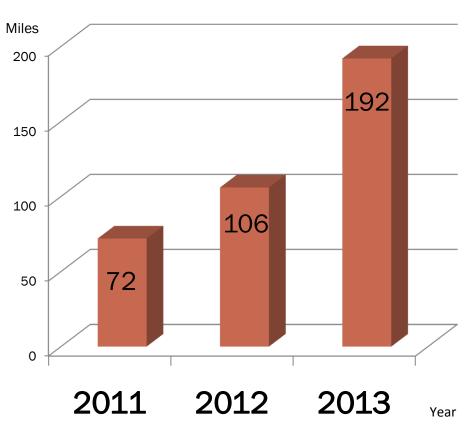
### PCI →→ ROI



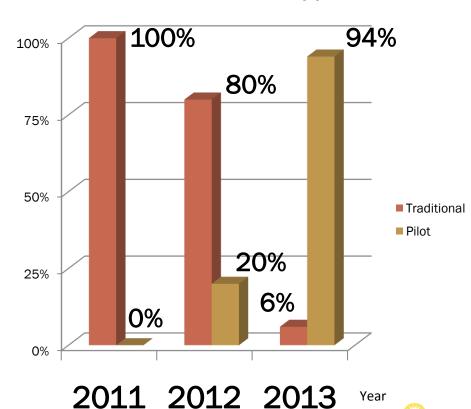


## Contracted Maintenance Programs $2011 \rightarrow \rightarrow 2013$

#### Lane Miles Maintained



#### Traditional vs. Pilot Approach



### **2012 CMP Highlights**

- Budget pressures prompted a failsafe reduction of \$2 million from CMP general funds
- Revisions were made strategically, on a project-by-project basis
- Significant savings were obtained from the expanded use of mitigation pilot projects (micro surfacing in lieu of mill & overlay), which reduced previously planned construction costs by \$598,259
- An additional \$1,401,741 in savings was obtained from the strategic reduction and/or deferment of previously planned repairs





# Micro Surfacing Mitigation

Before

\$3/SY:5 yrs

1.3 yrs/\$ invested





### **2013 CMP Highlights**

- Doubling down on 2012's successes, with a dramatically expanded pilot approach
- Pilot projects range from the use of entirely new treatments (like cape seal), to the incorporation of new material requirements in longstanding treatments
- Anticipate an 81% increase in lane miles maintained, compared to 2012

























### **2014 CMP Highlights**

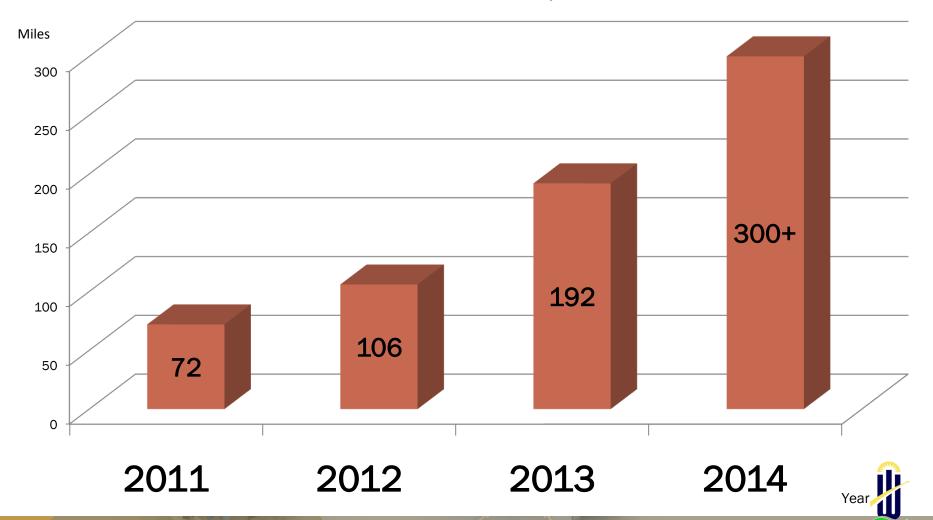
- Funding is scheduled to grow to \$8 million, a 33% increase over the historical level of \$6 million
- Proposed expenditures will be significantly focused on residential streets
- Proposed approach will center on thermal crack repair in neighborhoods, City-wide
- A significant increase in treated lane miles is anticipated





### **2014 CMP**

#### Lane Miles Maintained per Year













### **Life Cycle Model Development**

- Model development will continue into 2014
- 2015 budget discussions will include:
  - The short and long term results of the department's traditional strategy and budget
  - The strategy and budget required to maintain current condition and asset values over time
  - The strategy and budget that results in the optimum ROI over time



### **Questions?**

